

WHAT IS CLAIMED IS:

1 1. A method for capturing information for activity in a database, the
2 database including one or more sessions that may or may not be active over a period of time,
3 the method comprising:

4 determining a plurality of times to sample the database;
5 at each of the each plurality of times, performing the steps of:
6 determining one or more active sessions from the one or more sessions
7 included in the database that are active at the time;
8 capturing information for each of the one or more active sessions; and
9 storing the captured information for each of the active sessions.

1 2. The method of claim 1, wherein capturing information comprises
2 capturing the information using an internal process in the database.

1 3. The method of claim 1, wherein at different times in the plurality of
2 times, the determined one or more active sessions include different sessions.

1 4. The method of claim 1, wherein at least a part of the stored capturing
2 information for a session provides a session history.

1 5. The method of claim 1, wherein capturing information for each of the
2 one or more active sessions is performed without using SQL.

1 6. The method of claim 1, further comprising:
2 filtering the captured information based on which information is desired; and
3 archiving the captured information for a session if it is desired.

1 7. The method of claim 6, wherein filtering the captured information
2 comprises filtering the captured information based on a time the captured information was
3 captured.

1 8. The method of claim 1, wherein the captured information includes at
2 least one of a username, a request syntax, and information on what activity the session is
3 performing at the time.

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1 9. The method of claim 1, wherein storing the captured information
2 comprises storing the information storing the information in at least one of temporary storage
3 and archival storage.

1 10. The method of claim 1, further comprising creating a view from the
2 captured information, the viewing indicating database activity.

1 11. The method of claim 1, further comprising:
2 determining captured information that includes a session that has incomplete
3 information;
4 determining when the incomplete information is received; and
5 adding the received information to a sample for the session.

1 12. The method of claim 1, wherein the plurality of times includes times in
2 a periodic interval.

1 13. An apparatus for sampling database activity, the database including
2 one or more sessions that may or may not be active over a period of time, the method
3 comprising:
4 a session activity determiner configured to determine one or more active
5 sessions of one or more sessions in the database at certain times over a time interval, wherein
6 the one or more sessions may or may not be active over a period of time; and
7 an activity sampler configured to capture samples of activity for active
8 sessions at the certain times, wherein the samples are captured by recording a sequence of
9 snapshots of information for one or more active sessions over time.

1 14. The apparatus of claim 13, wherein the activity sampler is located in
2 the database.

1 15. The apparatus of claim 13, further comprising a storage device
2 configured to store the captured samples of activity.

1 16. The apparatus of claim 15, wherein the storage device comprises a
2 temporary storage.

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1 17. The apparatus of claim 16, further comprising archival storage
2 configured to store information that is older than information stored in temporary storage.

1 18. The apparatus of claim 15, further comprising a view creator
2 configured to create a view of database activity from the information stored in the storage
3 device.

1 19. The apparatus of claim 13, further comprising a filter configured to
2 filter the captured samples to determine which information in the captured sample should be
3 stored.

1 20. The apparatus of claim 13, further comprising a process configured to
2 determine if a session includes incomplete information and to add the information to a sample
3 for the session when it is captured.

1 21. The apparatus of claim 13, wherein the activity sampler is configured
2 to capture the samples of activity without using a query language.

1 22. A method for capturing session activity in a database, the database
2 including one or more sessions that may or may not be active over a period of time, the
3 method comprising:

4 determining one or more active sessions from the one or more sessions in the
5 database at certain times over a time interval; and

6 capturing samples of activity for active sessions at the certain times, wherein
7 the samples are captured by recording a sequence of snapshots of information for one or more
8 active sessions over time.

1 23. The method of claim 22, further comprising storing the samples of
2 activity.

1 24. The method of claim 23, wherein storing the samples comprises
2 storing the samples in at least one of temporary storage and archival storage.

1 25. The method of claim 23, wherein information in temporary storage has
2 been captured more recently than information in the archival storage.

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1 26. The method of claim 23, further comprising filtering information in the
2 temporary storage to determine if the information should be stored in the archival storage.

1 27. The method of claim 23, further comprising creating a view from the
2 stored information indicating database activity over a period of time.

1 28. The method of claim 22, further comprising:
2 determining captured information that includes a session that has incomplete
3 information;
4 determining when the incomplete information is received; and
5 adding the received information to the session.

1 29. The method of claim 22, wherein capturing samples of activity is
2 performed without using SQL.

1 30. The method of claim 22, wherein capturing samples of activity
2 comprises capturing the samples of activity using an internal process in the database.

1 31. A computer program product stored on a computer-readable medium
2 for capturing information for activity in a database, the database including one or more
3 sessions that may or may not be active over a period of time, the computer program product
4 comprising:
5 code for determining a plurality of times to sample the database;
6 at each of the each plurality of times, performing the steps of:
7 code for determining one or more active sessions from the one or more
8 sessions included in the database that are active at the time;
9 code for capturing information for each of the one or more active
10 sessions; and
11 code for storing the captured information for each of the active
12 sessions.

1 32. The computer program product of claim 31, wherein code for
2 capturing information comprises code for capturing the information using an internal process
3 in the database.

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1 33. The computer program product of claim 31, wherein at different times
2 in the plurality of times, the determined one or more active sessions include different
3 sessions.

1 34. The computer program product of claim 31, wherein code for
2 capturing information for each of the one or more active sessions is performed without using
3 SQL.

1 35. The computer program product of claim 31, further comprising:
2 code for determining captured information that includes a session that has
3 incomplete information;
4 code for determining when the incomplete information is received; and
5 code for adding the received information to a sample for the session.

1 36. A computer program product stored on a computer-readable medium
2 for capturing session activity in a database, the database including one or more sessions that
3 may or may not be active over a period of time, the computer program product comprising:
4 code for determining one or more active sessions from the one or more
5 sessions in the database at certain times over a time interval; and
6 code for capturing samples of activity for active sessions at the certain times,
7 wherein the samples are captured by recording a sequence of snapshots of information for
8 one or more active sessions over time.

1 37. The computer program product of claim 36, further comprising:
2 code for determining captured information that includes a session that has
3 incomplete information;
4 code for determining when the incomplete information is received; and
5 code for adding the received information to the session.

1 38. The computer program product of claim 36, wherein code for
2 capturing samples of activity is performed without using SQL.

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1 39. The computer program product of claim 36, wherein code for
2 capturing samples of activity comprises code for capturing the samples of activity using an
3 internal process in the database.